CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Kodigehalli Sub Division,
BBMP.

16th May 2016

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 20mm ↓ Graded

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of Agency	Sri. N. Thirunagendra.
Date of Testing	16/05/2016
Specific Gravity	**2.63**
Water Absorption	**0.32%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
40	**100**	100	**Satisfies the requirement**
20	**97.5**	95-100	
10	**45.2**	25-55	
4.75	**8.3**	0-10	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

AE(Lab)

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of Agency	Sri. N. Thirunagendra.
Date of Testing	16/05/2016
Specific Gravity	**2.68**
Water Absorption	**0.29%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970 (Reaffirmed 2011)**	**Remarks**
80	**100**	100	**Satisfies the requirement**
40	**97.5**	95-100	
20	**54.2**	30-70	
10	**24.6**	10-35	
4.75	**3.6**	0-5	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE(WZ)

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shancoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of Agency	Sri. N. Thirunagendra.
Date of Testing	16/05/2016
Specific Gravity	**2.57**
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**97.4**	90-100	90-100	90-100	95-100		
	2.36	**87.3**	60-95	75-100	85-100	95-100		
	1.18	**75.4**	30-70	55-90	75-100	90-100		
	0.6	**48.3**	15-34	35-59	60-79	80-100		
	0.3	**25.8**	5-20	8-30	12-40	15-50		
	0.15	**8.3**	0-10	0-10	0-10	0-15		

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Approved
AE(HQ)

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shancoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of the Agency	Sri. N. Thirunagendra.
Date of Testing	16/05/2016

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	51	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	488	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

Note:

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A.E.E. N.D
AE(W)

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

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T-2654

To,

Assistant Executive Engineer,
Kodigehalli Sub Division,
BBMP.

20th May 2016

Dear Sir,

Sub: Testing of Reinforcement Steel Bars.

As requested, tests on physical properties were carried out for the Reinforcement Steel Bars supplied by you, for the work of **'Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 8 mm

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of the Agency	Sri. N. Thirunagendra.
Date of Testing	20/05/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	8	8	Satisfactory
2	Wt/m Length (Kg/m)	0.397	0.395	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	13.6	12	Satisfactory
5	Yield Stress(N/Sq.mm)	504	500	Satisfactory
6	U T S (N/Sq.mm)	560	545	Satisfactory

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE(LT)

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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of the Agency	Sri. N. Thirunagendra.
Date of Testing	20/05/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	13.8	12	Satisfactory
5	Yield Stress(N/Sq.mm)	509	500	Satisfactory
6	U T S (N/Sq.mm)	565	545	Satisfactory

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

AE(W)

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 12 mm

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of the Agency	Sri. N. Thirunagendra.
Date of Testing	20/05/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.3	12	Satisfactory
5	Yield Stress(N/Sq.mm)	513	500	Satisfactory
6	U T S (N/Sq.mm)	570	545	Satisfactory

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

AE (WT)

CIVIL TECH LABS

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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Kodigehalli Sub Division,
BBMP.

13th July 2016

Dear Sir,

Sub: Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division. Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of Agency	Sri. N. Thirunagendra.
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.12 X 150.13 X 150.0	22538	15/06/2016	13/07/2016	28	8.17	475	**21.11**	**21.48**
2		150.15 X 150.14 X 150.0	22544				8.18	485	**21.56**	
3		150.12 X 150.13 X 150.0	22538				8.20	490	**21.78**	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

Mr. Lokesh. N.D
AE(W)

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of Agency	Sri. N. Thirunagendra.
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.14 X 150.15 X 150.0	22544	15/06/2016	13/07/2016	28	8.17	485	**21.56**	**21.85**
2		150.12 X 150.13 X 150.0	22538				8.20	490	**21.78**	
3		150.14 X 150.15 X 150.0	22544				8.22	500	**22.22**	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

AE(W-II)

(KHUSHBOO L)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of Agency	Sri. N. Thirunagendra.
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.13 X 150.15 X 150.0	22542	15/06/2016	13/07/2016	28	8.18	495	**22.00**	**22.30**
2		150.17 X 150.16 X 150.0	22550				8.19	500	**22.22**	
3		150.15 X 150.16 X 150.0	22547				8.22	510	**22.67**	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE(L&T)

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of Agency	Sri. N. Thirunagendra.
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4	150.14 X 150.17 X 150.0	22547	15/06/2016	13/07/2016	28	8.16	485	**21.56**	**21.93**
2		150.15 X 150.16 X 150.0	22547				8.17	495	**22.00**	
3		150.13 X 150.14 X 150.0	22541				8.18	500	**22.22**	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

N Thilly. N.D
AE(W7)

CIVIL TECH LABS

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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Kodigehalli Sub Division,
BBMP.

22nd August 2016

Dear Sir,

Sub: Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division. Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of Agency	Sri. N. Thirunagendra.
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.14 X 150.17 X 150.0	22547	25/07/2016	22/08/2016	28	8.17	490	**21.78**	**22.07**
2		150.16 X 150.15 X 150.0	22547				8.20	495	**22.00**	
3		150.13 X 150.14 X 150.0	22541				8.21	505	**22.44**	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

AE(L9)

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of Agency	Sri. N. Thirunagendra.
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.12 X 150.15 X 150.0	22541	25/07/2016	22/08/2016	28	8.19	500	**22.22**	**22.44**
2		150.17 X 150.16 X 150.0	22550				8.20	505	**22.44**	
3		150.15 X 150.18 X 150.0	22550				8.23	510	**22.67**	

Note:

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Khushboo

(KHUSHBOO L.T)
Quality Manager

CIVIL TECH LABS BANGALORE

AE(WZ)

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of Agency	Sri. N. Thirunagendra.
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.13 X 150.16 X 150.0	22544	25/07/2016	22/08/2016	28	8.19	495	**22.00**	**22.37**
2		150.15 X 150.14 X 150.0	22544				8.20	500	**22.22**	
3		150.16 X 150.18 X 150.0	22551				8.22	515	**22.89**	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

AE(WZ)

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to Roads in Badrappa layout (Shaneoy Tailor House Surrounding Near Kashinagar) in ward no. 07, Kodigehalli Sub Division.
Name of Agency	Sri. N. Thirunagendra.
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4	150.14 X 150.15 X 150.0	22544	25/07/2016	22/08/2016	28	8.18	500	**22.22**	**22.59**
2		150.13 X 150.15 X 150.0	22542				8.20	510	**22.67**	
3		150.15 X 150.16 X 150.0	22547				8.23	515	**22.89**	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Ack Lr LY. N-D
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